LAPT Rec'd PCTIPTO 10 AUG 2006

PTO-1390 (Rev. 07-2005) Approved for use through 3/31/2007. OMB 0651-0021

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# TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER
1455-062312
U.S. APP HEATION M9. (HE known, see 37 CFR

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371						
INTERNAT PCT/KR20	TONAL APPLICATION NO. 005/000369	INTERNATIONAL FILING DATE 07 February 2005	PRIORITY DATE CLAIMED 10 February 2004			
TITLE OF INVENTION						
PASSIVE COOLING AND ARRESTING DEVICE FOR MOLTEN CORE MATERIAL  APPLICANT(S) FOR DO/EO/US						
Jin Ho SO	NG et al.					
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:						
1. 🗸 1	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.					
2. L T	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.					
3. ☑ 1	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.					
4. 🔽 1	The US has been elected (Article 31).					
5. 🗸	A copy of the International Application as filed (35 U.S.C. 371(c)(2))					
	a. is attached hereto (required only if not communicated by the International Bureau).					
	b.  has been communicated by	the International Bureau.				
	c. is not required, as the application was filed in the United States Receiving Office (RO/US).					
6.	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).					
	a.  is attached hereto.					
<sub>7</sub> 🗸	•	tted under 35 U.S.C. 154(d)(4).				
7.	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))					
	a. — are attached hereto (required only if not communicated by the International Bureau).					
	b.  have been communicated by the International Bureau.					
	[2]	ever, the time limit for making such amend	ments has NOT expired.			
. —	d. Ly have not been made and v		1:-1- 40 (05 H 0 0 074(-)/0))			
8. []		ne amendments to the claims under PCT A	nicle 19 (35 U.S.C. 371(c)(3)).			
9. <b>V</b>	An earlish language translation of the	e annexes of the International Preliminary	Evamination Report under PCT			
10.	Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the international Freminiary	Examination Report direct 1 01			
Items	11 to 20 below concern document(s	s) or information included:				
11.	An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.				
12. 🗸	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.					
13. 🗸	A preliminary amendment.					
14.	An Application Data Sheet under 37 (	CFR 1.76.				
15.	A substitute specification.					
16.	A power of attorney and/or change of address letter.					
17.	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.					
18.	A second copy of the published Intern	national Application under 35 U.S.C. 154(d	)(4).			
19.	A second copy of the English language	ge translation of the international applicatio	n under 35 U.S.C. 154(d)(4).			

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (if known, see 37 CFR 1	.5) INTERNATIONAL A	APPLICATION NO.	ATTORNEY'S DOCKET NUMBER			
10/589274	PCT/KR2005/00036	9	1455-062312			
20. Other items or information: International Preliminary Report on Patentability with Annex (15 pp.)						
The following fees have been submitted	CALCULATIONS	PTO USE ONLY				
21. Basic national fee (37 CFR 1.492(a)	<b>)</b>	\$300	\$ 300.00			
22. Examination fee (37 CFR 1.492(c))						
If the written opinion prepared by ISA/US or the in by IPEA/US indicates all claims satisfy processing the street of the street	\$ 200.00					
23. Search fee (37 CFR 1.492(b))  If the written opinion of the ISA/US or the Internative IPEA/US indicates all claims satisfy proving Search fee (37 CFR 1.445(a)(2)) has been paid of International Searching Authority	\$ 400.00					
TOTAL OF 21, 22 and 23 =	\$ 900.00					
Additional fee for specification and drawings sequence listing in compliance with 37 C electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 shows						
Total Sheets Extra Sheets Number of each additional 50 or fraction thereof (round up to a whole number)		RATE				
18 - 100 = 0 /50 =	0		\$ 0.00			
Surcharge of \$130.00 for furnishing any of the se after the date of commencement of the national s	\$ 0.00					
CLAIMS NUMBER FILED	NUMBER EXTRA	NUMBER EXTRA RATE				
Total claims 9 - 20 =	= 0	x \$50	\$ 0.00			
Independent claims 1 - 3 :	= 0	x \$200	\$ 0.00			
MULTIPLE DEPENDENT CLAIM(S) (if applicable	e)	+ \$360	\$ 0.00			
	\$					
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.						
	\$ 900.00					
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						
	\$ 900.00					
Fee for recording the enclosed assignment (37 C by an appropriate cover sheet (37 CFR 3.28, 3.3	\$ 40.00					
TOTAL FEES ENCLOSED = \$ 940.00						
			Amount to be refunded:	\$		
-			Amount to be charged	\$		

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		•					
a. A check in the amount of \$ 940.00	to cover the above fees	s is enclosed.					
b. Please charge my Deposit Account NoA duplicate copy of this sheet is enclosed.	in the amount of \$	to cover the above fees.					
c. The Commissioner is hereby authorized to charge Account No. 23-0650 . A duplicate copy of this	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-0650 . A duplicate copy of this sheet is enclosed.						
	Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.							
SEND ALL CORRESPONDENCE TO:		K 45 B. M.					
Kent E. Baldauf	<del></del>	SIGNATURE SIGNATURE					
The Webb Law Firm	ĸ	Kent E. Baldauf					
700 Koppers Building 436 Seventh Avenue		NAME					
Pittsburgh, PA 15219-1845		REGISTRATION NUMBER					
Telephone: (412) 471-8815 Facsimile: (412) 471-4094		NEGIOTI WINDEN					

## 10/589274 IAP11 Rec'd PCT/PTO 10 AUG 2006

PATENT APPLICATION/PCT

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:	ATTORNEY'S DOCKET NUMBER		
Jin Ho SONG et al.	1455-062312		
PCT/KR2005/000369			
ENTITLED			
"PASSIVE COOLING AND A	ARRESTING DEVICE FOR MOLTEN CORE MATERIAL"		
MAIL STOP PCT Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450	S MAIL CERTIFICATE		
"Express Mail" Label Number	EV908695759US .		
Date of Deposit1	0 August 2006		
I hereby certify that the following	ing attached paper or fee		
Designated/Elected Filing Under 35 U. And Check In The Amount C Application Preliminary Am WO 2005/0076285 Front Page w Internation Declaration a Letter Indi	Letter To The United States I Office (DO/EO/US) Concerning A S.C. 371 (original and one (1) copy) Of \$940.00 for Filing Fee and Assignment Fee; In Data Sheet (ADS) (3 pp.); Itendment with Abstract (14 pp.); Ite		
	es Postal Service "Express Mail Post Office to Addressee" ate indicated above and is addressed to the Commissioner a, VA 22313-1450.		
	Ruth A. Walkup  Typed name of person mailing paper or fee)  Signature of person mailing paper or fee)		